

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/003103 A2

(51) International Patent Classification⁷: C07D 251/00

19850-5437 (US). SMITH, Reed, W, Jr [US/US]; AstraZeneca R & D Wilmington, 1800 Concord Pike, Wilmington, Delaware 19850-5437 (US).

(21) International Application Number:
PCT/GB2004/002723

(74) Agent: GLOBAL INTELLECTUAL PROPERTY; AstraZeneca AB, S-151 85 Södertälje (SE).

(22) International Filing Date: 24 June 2004 (24.06.2004)

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
60/484,250 30 June 2003 (30.06.2003) US

(71) Applicant (for all designated States except MG, US): ASTRAZENECA AB [SE/SE]; S-151 85 Södertälje (SE).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for MG only): ASTRAZENECA UK LIMITED [GB/GB]; 15 Stanhope Gate, London Greater London W1K 1LN (GB).

(72) Inventors; and

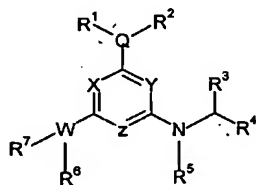
(75) Inventors/Applicants (for US only): BROWN, Dean [US/US]; AstraZeneca R & D Wilmington, 1800 Concord Pike, Wilmington, Delaware 19850-5437 (US). CACCIOLA, Joseph [US/US]; AstraZeneca R & D Wilmington, 1800 Concord Pike, Wilmington, Delaware 19850-5437 (US). JACOBS, Robert, T [US/US]; AstraZeneca R & D Wilmington, 1800 Concord Pike, Wilmington, Delaware 19850-5437 (US). MCLAREN, Frances, M [US/US]; AstraZeneca R & D Wilmington, 1800 Concord Pike, Wilmington, Delaware 19850-5437 (US). SHENVIL, Ashokkumar, Bhlkkappa [US/US]; AstraZeneca R & D Wilmington, 1800 Concord Pike, Wilmington, Delaware

Published:

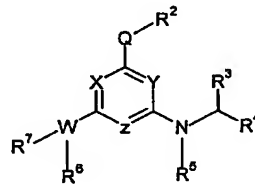
— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL 2,4,6-TRI-SUBSTITUTED HETEROCYCLES AND USES THEREOF



(I)



(II)

(57) Abstract: Compounds of formula (I) and (II); their pharmaceutical compositions and methods of use for the treatment of neurological disorders related to amyloid B protein production such as Alzheimer's disease.